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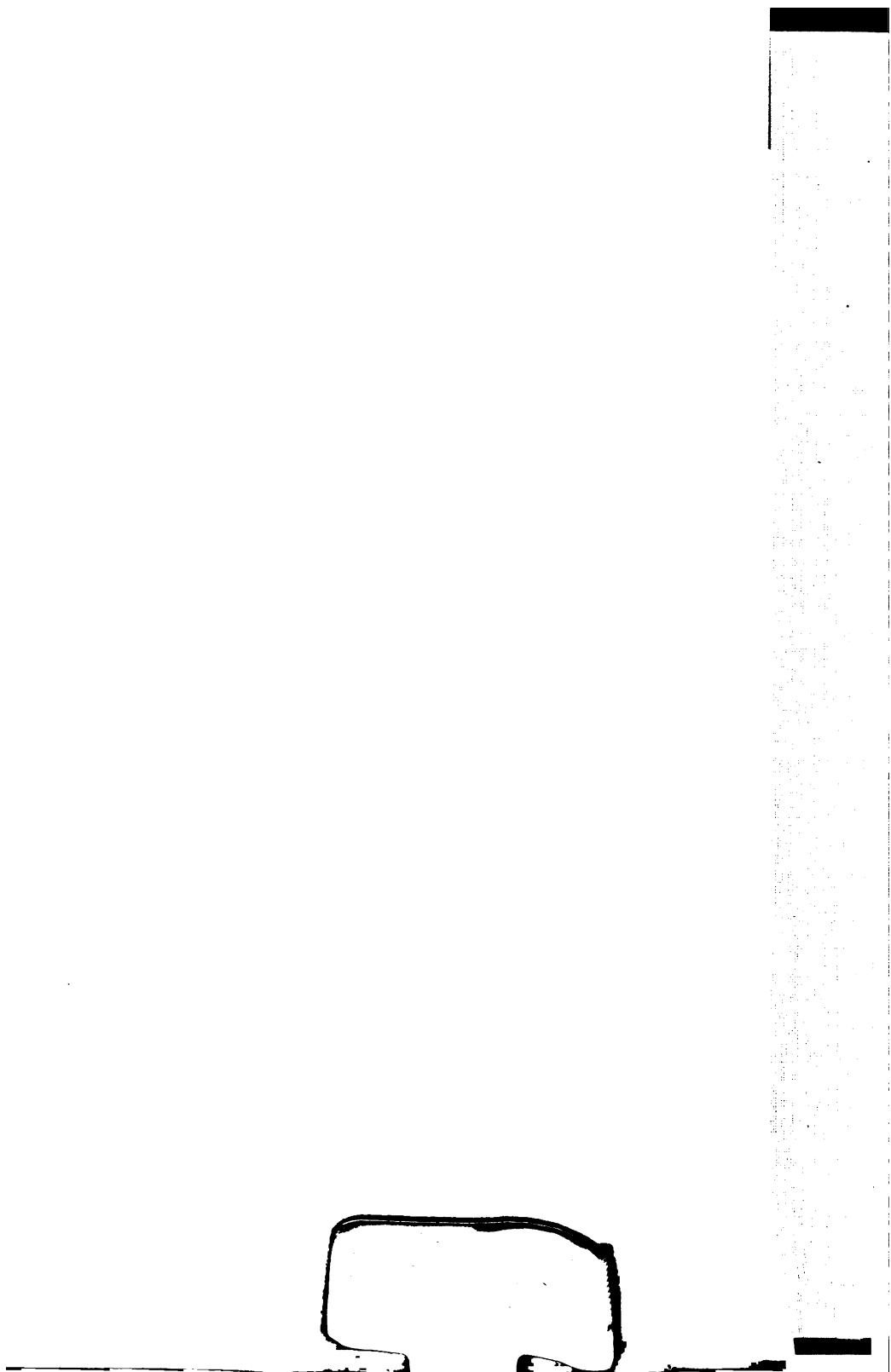
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YALE UNIVERSITY

# Summer School of Forestry



MILFORD, PENNSYLVANIA

1902



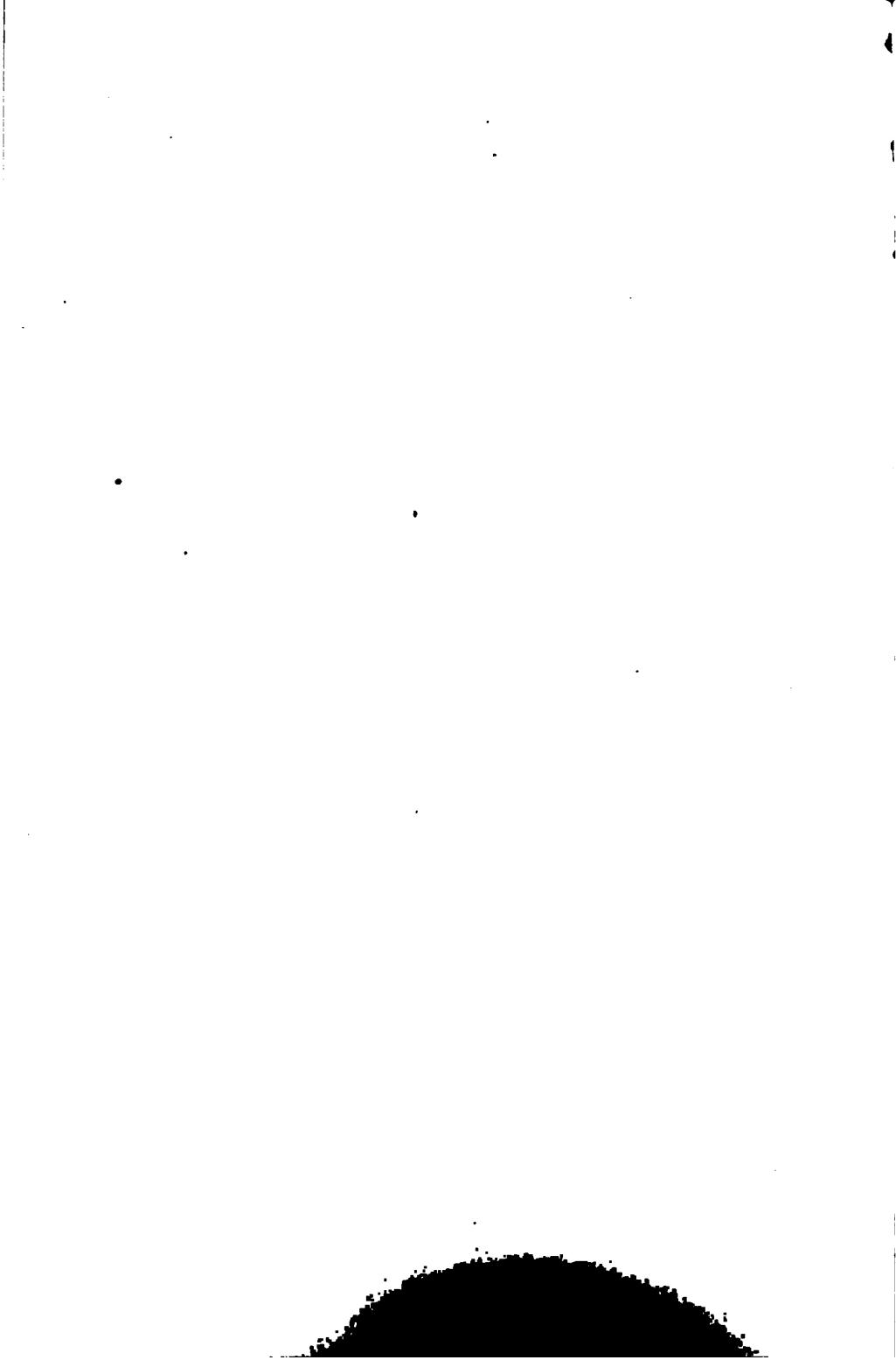
YALE UNIVERSITY

# Summer School of Forestry



MILFORD, PENNSYLVANIA

1902



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YALE SUMMER SCHOOL OF FORESTRY.



SCHOOL CAMP.

# YALE UNIVERSITY

## SUMMER SCHOOL OF FORESTRY

### DIRECTOR

JAMES WILLIAM TOUMEY, M.S.,  
*Assistant Professor of Forestry in the Yale Forest School*

### ASSISTANT INSTRUCTORS

WALTER MULFORD, F.E.,  
*State Forester of Connecticut*

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### SITUATION OF THE SCHOOL

The Summer School of Forestry will hold its sessions at Grey Towers, the estate of Mr. James W. Pinchot, near the village of Milford, Pike Co., Pa. The site combines the advantages of excellent opportunities for practical forest study and field work and of a pleasant and healthful summer resort. Milford lies on the west bank of the Delaware River, eight miles below Port Jervis, N. Y., whence it is reached by stage running regularly twice a day. Port Jervis is on the direct line of the Erie Railroad. The village has ample accommodations for visitors in a number of comfortable hotels and boarding houses.

The School building stands on a hill overlooking Milford, at an elevation of some 800 feet above sea-level. Less than a quarter of a mile from the School is the picturesque glen of the Sawkill, with the well known Sawkill Falls. Back of the School stretches away a rough, well-wooded country which makes up the wilder part of Pike County, while in front opens a wide prospect over the Delaware Valley, bounded by the distant Shawangunk hills.

\* To be announced later.

## PURPOSE OF THE SCHOOL

The purpose of the Summer School of Forestry is to provide instruction in Forestry for those who do not wish to take, or who are not ready for, the more advanced technical courses at regular Forest Schools. The course is designed for :

I. Owners of woodland. Farmers, lumbermen, and others who wish to obtain a knowledge of the principles of Forestry and a practical acquaintance with the care and tending of woodlands, and with tree planting, will receive instruction to meet their special requirements.

II. Forest Rangers. The course is particularly adapted to persons who wish to fit themselves for practical work as forest rangers.

III. Teachers. Instruction in Forestry is now given in a considerable number of Agricultural Colleges, Industrial Schools, and other institutions, both in connection with the study of Horticulture and as separate courses, and it would doubtless form part of the instruction in Botany and Nature Study in public and private schools, if the teachers were properly equipped. The attention of teachers is especially called to the courses offered at the Yale Summer School of Forestry.

IV. All persons who desire to acquire a general knowledge of Forestry, or any of its branches. Forest Botany will be given special attention.

V. Students of Forestry who are deficient in certain subjects.

There will be an excellent opportunity for advanced students to carry on special forest work under the immediate supervision of the professors in charge of the School.

## EQUIPMENT

Through the generosity of Mr. James W. Pinchot the School is thoroughly equipped for the purposes of instruction. The school building contains a large hall capable

of seating about 75 persons, which is used for general lectures, and three smaller rooms, two of which will be used as laboratories, and the other as a special library and reading room. For practical instruction in the field Mr. Pinchot has given the use of his woods, a tract of about 60 acres, and also considerable open ground for work in tree planting. The forests in the immediate neighborhood offer excellent opportunities for practical study in Silviculture and Forest Botany. One of the Pennsylvania State Forest Reservations is but a short distance from Milford, and will be available for study.

For the accommodation of those who desire to live in camp, tents will be furnished by the School, and arrangements will be made for board at a reasonable rate. The camp is situated on high, dry ground above the Sawkill in the edge of the woods, a location which is exceedingly healthful.

#### ADMISSION

Candidates for admission to the Summer School of Forestry must be 17 years or more of age. There are no entrance examinations, and evidence of good moral character will be required. The school is open to women.

Candidates are advised to make application before June 1, 1902, to Professor James W. Toumey, Yale Forest School, New Haven, Conn., since the accommodations are necessarily limited.

#### LENGTH OF THE TERM

The School will open July 1, 1902, and continue eight weeks. Students are required to register at the School building not later than 12 M. on Tuesday, July 1.

#### FEES AND EXPENSES

The fee for a single session at the School will be \$25.00. An extra fee of \$15.00 will be charged to those occupying

school tents. Board in camp will be less than \$5.00 per week. Board and lodgings may be had in the village at prices ranging from \$5.00 per week upwards.

Information regarding hotels and boarding houses may be obtained by application to Professor Toumey.

The railroad fare from New York to Port Jervis and return is \$3.60. The stage fare from Port Jervis to Milford is 50 cents.

### COURSES OF INSTRUCTION

Five regular courses in Forestry are offered. Students may take all of the courses, or may select only a portion of them. The professors in charge of the School will direct personally the studies of those who may wish to carry on special forest work.

#### FOREST BOTANY

Professor TOUMEY

Particular attention will be given to Forest Botany. This course will embrace laboratory work, field work and lectures. The feature of the course will be field excursions to familiarize the students with the trees near the School, and their habits of growth. The effect of plant parasites upon tree growth, and the part taken by herbage and shrubs in the forest, will also be studied in the field.


The laboratory work will include the study of the forest flora of the vicinity.

The lectures will cover a systematic account of the trees of the United States, with particular reference to those of importance in Forestry. The anatomy and physiology of trees will also be studied.

#### INTRODUCTION TO FORESTRY

Professor TOUMEY

The purpose of this course is to explain what Forestry is, and its true scope and function in the United States.



The course will be presented entirely by lectures, which will discuss the forest, the relation of Forestry to kindred subjects, the auxiliary sciences in their relation to Forestry, and the different branches of technical Forestry in their relation to each other.

Special attention will be given to the importance of Forestry in its relation to the public welfare, the forest products of the United States, the consumption and supply of wood and timber, and the effect of forest growth on soil, on climate, and on streams. The course will close with a discussion of National and State forest reservations, the Government in its relation to Forestry, the practice of Forestry in the United States, and Forestry as a profession.

#### SILVICULTURE

Mr. MULFORD

The object of this course is to give, as thoroughly as the length of the session will permit, a training in the principles and the practical methods of establishing and treating woodlands. It will consider the characteristics of trees and forests with special reference to American conditions. By lectures and field practice the students will be trained in the methods of making thinnings for the improvement of the character and composition of the forest, and for the reproduction of the desirable species. Methods of establishing woods by seed and transplanting will form an important part of the course.

#### FOREST PROTECTION

Mr. MULFORD

This course will consider forest fires, trespass, damage to forests from wind, insects, grazing, torrents, and drifting sand, and the best means of protection. It is especially recommended to forest rangers.

## FOREST MEASUREMENTS

This course takes up in a practical way the methods of determining the contents of felled and standing trees and of whole forests, the methods of making rough or accurate estimates of standing timber, the use of American log scales, and the methods of determining the age and growth of individual trees and of whole stands.

## FOREST REGIONS

Professor TOUMEY

This course comprises a series of lectures, illustrated by lantern slides, of the different forest regions of the United States. They are designed to give the students a clear idea of the botanical and silvicultural character of the forests in the spruce forests of the northeast, the maritime pine belt of the Atlantic coast, the hardwood region of the Allegheny mountains, the Lake State region, the Rocky mountains, the Pacific coast region, and the dry belt of Arizona and New Mexico. The course will include also a lecture on tree seedlings and forest nurseries, with special reference to the experimental work done at the Yale Forest School.

## FIELD WORK

Practical work in the woods will form an important part of the instruction. In connection with the course in Forest Botany frequent excursions will be made to train the students in identifying native and imported trees and shrubs. A large part of the work in Silviculture will be devoted to practice in selecting trees for thinnings, in locating reproduction and improvement cuttings and in the study of forest planting. During the course in Forest Measurements the students will be given abundant practice in studying the growth of trees and whole stands, making estimates of standing timber, etc. In the course in Forest Protection the damage done by fire and other enemies of the forest will be illustrated by excursions.

# SCHEDULE OF HOURS

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
A. M. 9	Forest Botany (Lecture, followed by laboratory or field work)	Forest Measurements (Lecture, followed by field work during the remainder of the day)	Forest Botany (Lecture, followed by laboratory or field work)	Silviculture (Field work all day)	Forest Regions (Illustrated by lantern slides)	Special Excursions
10					Silviculture	
11					Introduction to Forestry	
P. M. 2	Silviculture				Forest Protection (Lecture, followed by field work)	
3	Introduction to Forestry					



